CLAIMS

What is claimed is:

- In screen printing of a surface of an object, a method for preventing ink flow over an edge of the object comprising the steps of:
 - a) placing the object with the edge positioned above a flow of gas, and
 - b) using the flow of gas to prevent ink flow over the edge.
- The method as defined by claim 1 wherein step a) includes placing the object on a platen having a support surface for the object, the flow of gas coming from a gas supply in the support surface.
- 3. The method as defined by claim 2 wherein the object comprises a semiconductor wafer.
 - 4. The method as defined by claim 3 wherein the support surface includes a groove configured to match the edge of the wafer, the gas supply being applied to the groove.
- The method as defined by claim 3 wherein the support surface includes a plurality of holes arranged to match the edge of the wafer, the gas supply being applied to the holes.
 - 6. The method as defined by claim 3 wherein the gas comprises air.
- 7. The method as defined by claim 3 wherein the gas is inert.
 - 8. The method as defined by claim 3 wherein the gas comprises nitrogen.
- 9. A method of screen printing to the edge of a surface of an object comprising the steps of:
 - a) providing a platen having a support surface for the object, the surface including a gas supply line,
 - b) placing the object on the platen with the edge overlapping the gas supply line in the platen, and

- c) applying a flow of gas from the gas supply over the edge of the object during application of a print ink to thereby oppose the flow of ink over the edge and to the platen.
- 10. The method as defined by claim 9 wherein the gas supply line includes a groove configured to match the edge of the object.
 - 11. The method as defined by claim 9 wherein the gas supply line includes a plurality of holes arranged to match the edge of the object.
- 10 12. The method as defined by claim 9 wherein the flow of gas includes air.
 - 13. The method as defined by claim 9 wherein the flow of gas includes inert gas.
 - 14. The method as defined by claim 9 wherein the flow of gas includes nitrogen.
 - 15. The method as defined by claim 9 wherein the object comprises a semiconductor wafer.
- 16. The method as defined by claim 15 wherein the semiconductor wafer comprises a photovoltaic cell.
 - 17. A platen for supporting a wafer during screen printing comprising:
 - a) a support surface for supporting the wafer during processing,
- b) a groove around the support surface and configured to match the periphery of the wafer, and
 - c) a gas line communicating with the groove for applying gas pressure to the groove during wafer processing.
- 18. The platen as defined by claim 17 and further including a plurality of holes through the support surface for applying a vacuum for holding a wafer on the support surface.
 - 19. The platen as defined by claim 17 wherein the groove comprises a plurality of holes communicating with the gas line.

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